

IN THE CLAIMS:

1. (Currently Amended) A two-dimensional ~~Two-dimensional~~ mesh implant for hernia care, the two-dimensional mesh implant comprising: characterised by

a first annular mesh layer (1), ~~surrounding~~ comprising a central opening (3), ~~with and~~ an access slit [[(5)]] ~~extending toward said central opening, said access slit interrupting [[the]]~~

5 ~~an annular path of said first annular mesh layer; towards the central opening (3),~~

a second annular mesh layer (2) ~~surrounding~~ comprising a second annular mesh layer central opening (4), ~~also with an~~ ~~and a second annular mesh layer~~ access slit [[(6)]] ~~extending toward said second annular mesh layer central opening, said second annular mesh layer access slit interrupting [[the]]~~ ~~an annular path of said second annular mesh layer, towards the central opening (4), the two mesh layers (1, 2)~~ ~~said first annular mesh layer and said second annular mesh layer being superimposed with aligning~~ ~~said central opening being aligned with~~ ~~said second annular mesh layer central opening and said access slit openings (2, 4) with the positions of the access slits (5, 6) being offset with respect to one another~~ ~~said second annular mesh layer access slit and the two mesh layers~~ ~~said first annular mesh layer and said second annular mesh layer being joined together only on one common side of the access slits (5, 6)~~

10 ~~said access slit and said second annular mesh layer access slit based on [[the]]~~ ~~a peripheral direction, wherein said first annular mesh layer and said second annular mesh layer are joined via connection points, said connection points being in a form of seamed points or bonded points [[(P)]].~~

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2. (Currently Amended) A mesh [[Mesh]] implant according to claim 1,
~~characterised in that~~ the two access slits (5, 6) wherein said access slit and said second
annular mesh layer access slit are positioned offset with respect to one another by an angle
[[(V)]] of 180°.

3. (Currently Amended) A mesh [[Mesh]] implant according to either claim 1 or claim
2, ~~characterised in that~~ wherein said first annular mesh layer and said second annular mesh
layer ~~the two mesh layers (1, 2)~~ have a congruent shape.

4 - 8. (Canceled)

9. (New) A two-dimensional mesh implant for hernia care, the two-dimensional mesh
implant comprising:

a first annular mesh layer comprising a first annular mesh layer surface defining a first
annular mesh layer central opening and a first annular mesh layer access slit, said first annular
mesh layer access slit extending in a direction of said first annular mesh layer central opening,
wherein one annular edge portion of said first annular mesh layer is located at a spaced location
from another annular edge portion of said first annular mesh layer via said first annular mesh
layer access slit;

a second annular mesh layer comprising a second annular mesh layer surface defining
a second annular mesh layer central opening and a second annular mesh layer access slit, said

second annular mesh layer access slit extending in a direction of said second annular mesh layer central opening, wherein one annular edge portion of said second annular mesh layer is located at a spaced location from another annular edge portion of said second annular mesh layer via said second annular mesh layer access slit, said first annular mesh layer and said second annular mesh layer being superimposed such that said first annular mesh layer central opening is aligned with said second annular mesh layer central opening and said first annular mesh layer access slit is offset with respect to said second annular mesh layer access slit, said first annular mesh layer access slit and said second annular mesh layer access slit defining a common connection side of said first annular mesh layer and said second annular mesh layer, said first annular mesh layer being connected to said second annular mesh layer only on said common connection side via connection points, said connection points comprising one of seamed points and bonded points, said connection points being positioned along an inner circumferential edge of said first annular mesh layer and an inner circumferential edge of said second annular mesh layer and said connection points being positioned along an outer edge of said first annular mesh layer and an outer edge of said second annular mesh layer, said inner circumferential edge of said first annular mesh layer defining at least a portion of said first annular mesh layer central opening, said inner circumferential edge of said second annular mesh layer defining at least a portion of said second annular mesh layer central opening.

10. (New) A two-dimensional mesh implant for hernia care, the two-dimensional mesh implant comprising:

a first annular mesh layer comprising a first annular mesh layer surface defining a first annular mesh layer central opening and a first annular mesh layer access slit, said first annular mesh layer access slit extending in a direction of said first annular mesh layer central opening, wherein one annular edge portion of said first annular mesh layer is located at a spaced location from another annular edge portion of said first annular mesh layer via said first annular mesh layer access slit;

a second annular mesh layer comprising a second annular mesh layer surface defining a second annular mesh layer central opening and a second annular mesh layer access slit, said second annular mesh layer access slit extending in a direction of said second annular mesh layer central opening, wherein one annular edge portion of said second annular mesh layer is located at a spaced location from another annular edge portion of said second annular mesh layer via said second annular mesh layer access slit, said first annular mesh layer and said second annular mesh layer being superimposed such that said first annular mesh layer central opening is aligned with said second annular mesh layer central opening and said first annular mesh layer access slit is offset with respect to said second annular mesh layer access slit, said first annular mesh layer access slit and said second annular mesh layer access slit defining a common connection side of said first annular mesh layer and said second annular mesh layer, said first annular mesh layer being connected to said second annular mesh layer only on said common connection side, wherein said first annular mesh layer and said second annular mesh layer is formed of a laser-cut mesh web material, said laser-cut mesh web material comprising polypropylene.

11. (New) A two-dimensional mesh implant for hernia care, the two-dimensional
mesh implant comprising:

a first annular mesh layer comprising a first annular mesh layer central opening and a
first annular mesh layer access slit, said first annular mesh layer access slit extending in a
direction of said first annular mesh layer central opening, wherein one annular edge portion of
5 said first annular mesh layer is located at a spaced location from another annular edge portion
of said first annular mesh layer via said first annular mesh layer access slit;

a second annular mesh layer comprising a second annular mesh layer central opening
and a second annular mesh layer access slit, said second annular mesh layer access slit
extending in a direction of said second annular mesh layer central opening, wherein one
10 annular edge portion of said second annular mesh layer is located at a spaced location from
another annular edge portion of said second annular mesh layer via said second annular mesh
layer access slit, said first annular mesh layer and said second annular mesh layer being
superimposed such that said first annular mesh layer central opening is aligned with said
15 second annular mesh layer central opening and said first annular mesh layer access slit is
arranged at a position that is offset with respect to said second annular mesh layer access slit,
said first annular mesh layer access slit and said second annular mesh layer access slit defining
a common connection side of said first annular mesh layer and said second annular mesh layer,
said first annular mesh layer being connected to said second annular mesh layer only on said
20 common connection side, said first annular mesh layer and said second annular mesh layer

comprising a continuous, body-compatible coating containing metal.

12. (New) A mesh implant in accordance with claim 11, wherein said coating is a titanium-containing coating having a thickness of less than 2 μm .

13. (New) A mesh implant in accordance with claim 12, wherein said titanium-containing coating has a thickness from 5 nm to 700 nm.

14. (New) A mesh implant in accordance with claim 11, wherein said first annular mesh layer access slit and said second annular mesh layer access slit are arranged offset with respect to each other by an angle of 180°.

15. (New) A mesh implant in accordance with claim 11, wherein said first annular mesh layer and said second annular mesh layer have a congruent shape.

16. (New) A mesh implant in accordance with claim 1, wherein each connection point is located at a spaced location from another one of said connection points.

17. (New) A mesh implant in accordance with claim 16, wherein one or more of said connection points is located adjacent to said central opening and said second mesh layer central opening.

18. (New) A mesh implant in accordance with claim 9, wherein each connection point is located at a spaced location from another one of said connection points.

19. (New) A mesh implant in accordance with claim 10, wherein said first annular mesh layer is connected to said second annular mesh layer only on said common connection side at a plurality of connection points, each of said connection points being located at a spaced location from another one of said connection points.

20. (New) A mesh implant in accordance with claim 19, wherein at least one of said connection points is located adjacent to said first annular mesh layer central opening and said second annular mesh layer central opening.

21. (New) A mesh implant in accordance with claim 11, wherein said first annular mesh layer is connected to said second annular mesh layer only on said common connection side at a plurality of connection points, each of said connection points being located at a spaced location from another one of said connection points.

22. (New) A mesh implant in accordance with claim 21, wherein at least one of said connection points is located adjacent to said first annular mesh layer central opening and said second annular mesh layer central opening.